

## Publications

1. **Rong, L.** and Perelson, A.S., 2008. Asymmetric division of activated latently infected cells may explain the decay kinetics of the HIV-1 latent reservoir and intermittent viral blips, submitted.
2. **Rong, L.**, Feng, Z. and Perelson, A.S., 2008. Mathematical modeling of HIV-1 infection and drug therapy. In *Mathematical Modeling of Biosystems*, R. P. Mondaini and P. M., Pardalos, eds., Springer-Verlag, pp. 87-131.
3. **Rong, L.**, Gilchrist, M.A., Feng, Z. and Perelson, A.S., 2007. Modeling within-host HIV-1 dynamics and the evolution of drug resistance: trade-offs between viral enzyme function and drug susceptibility, *J. Theor. Biol.* 247, 804-818.
4. **Rong, L.**, Feng, Z. and Perelson, A.S., 2007. Emergence of HIV-1 drug resistance during antiretroviral treatment, *Bull. Math. Biol.* 69, 2027-2060.
5. **Rong, L.**, Feng, Z. and Perelson, A.S., 2007. Mathematical analysis of age-structured HIV-1 dynamics with combination antiretroviral therapy, *SIAM J. Appl. Math.* 67, 731-756.
6. **Rong, L.**, 2007. Mathematical modeling of HIV-1 infection and drug therapy. Doctoral dissertation, (Thesis advisor: Zhilan Feng, Professor of Mathematics, Purdue University).
7. Feng, Z. and **Rong, L.**, 2006. The influence of anti-viral drug therapy on the evolution of HIV-1 pathogens. In *Disease Evolution: Models, Concepts, and Data Analyses*, Z. Feng, U. Dieckmann and S. A. Levin, eds., American Mathematical Society, pp. 161-179.
8. **Rong, L.** and Chen, T., 2006. New results on the robust stability of Cohen-Grossberg neural networks with delays. *Neural Processing Letters* 24, 193-202.
9. Feng, Z., **Rong, L.** and Swihart, R.K., 2005. Dynamics of an age-structured metapopulation model. *Natural Resource Modeling* 18, 415-440.
10. **Rong, L.**, 2005. LMI approach for global periodicity of neural networks with time-varying delays. *IEEE Transactions on Circuits and Systems I: Regular Papers* 52, 1451-1458.
11. **Rong, L.**, 2005. LMI-based criteria for robust stability of Cohen-Grossberg neural networks with delay. *Physics Letters A* 339, 63-73.
12. **Rong, L.**, Lu, W. and Chen, T., 2004. Global exponential stability in Hopfield and bidirectional associative memory neural networks with time delays. *Chinese Annals of Mathematics* 25, 255-262.
13. Chen, T. and **Rong, L.**, 2004. Robust global exponential stability of Cohen-Grossberg neural networks with time delays, *IEEE Transactions on Neural Networks* 15, 203-206.
14. **Rong, L.**, 2003. Stability analysis of neural network models, Master's thesis (Thesis advisor: Tianping Chen, Professor of Mathematics, Fudan University).
15. Lu, W., **Rong, L.** and Chen, T., 2003. Global convergence of delayed neural network systems, *International Journal of Neural Systems* 13, 193-204.
16. Chen, T. and **Rong, L.**, 2003. Delay-independent stability analysis of Cohen-Grossberg neural networks, *Physics Letters A* 317, 436-449.